

B1
whereby at least one sialyloligosaccharide is produced in said dairy source.

B2
11. (Amended) The method of claim 3 wherein the cheese processing waste stream comprises a member selected from the group consisting of: whole whey, demineralized whey permeate, a regeneration stream from demineralized whey permeate, whey permeate, crystallized lactose, spray dried lactose, whey powder, edible lactose and aqueous lactose.

B3
19. (Amended) A method for producing sialyloligosaccharides in a cheese processing waste stream comprising:

(i) contacting a catalytic amount of at least one α (2-3) trans-sialidase with a cheese processing waste stream to form a waste stream/trans-sialidase mixture; and
(ii) incubating said waste stream/trans-sialidase mixture under conditions suitable for α (2-3) trans-sialidase activity;

whereby at least one sialyloligosaccharide is produced in said dairy source.

B4
36. (Amended) A method for producing α -2,3-sialyllactose in a dairy source comprising:

(i) contacting a catalytic amount of at least one α -2,3-trans-sialidase with lactose and an α -2,3-sialyloligosaccharide, in the absence of CMP-sialyltransferase, to form a mixture; and
(ii) incubating said mixture under conditions suitable for α -2,3-trans-sialidase activity;

whereby α -2,3-sialyllactose is produced in said dairy source.

REMARKS

Claims 1-36 are pending in the current application. By way of the present Amendment, claims 1, 11, 19 and 36 are amended.